

# Mobile Force System Wireless Telemetry System

Industry: Test and Measurement

## Summary

### Customer Challenge

A customer wants a mobile measurement system that can perform force tests. They need a customizable portable system that can both withstand extreme temperatures and rough environments. They also need a system that has a rechargeable battery included.

### Interface Solution

Interface's solution is to create a portable case with multiple WTS 1200 Standard Precision LowProfile™ Wireless Load Cells, 9812-WTS Wireless Panel Mount Display for Single Transmitters, and the WTS-BS-3E Wireless Base Station. This can connect to the tablet computer to view results. Multiple WTS-ANTE Telemetry Antennas can also extend wireless range. An inverter and rechargeable battery is also installed at the bottom of the foam case so the customer can charge on the go, using a wall outlet or vehicle power outlet.

### Results

The customer was able to easily perform multiple force tests wirelessly in multiple different environments with Interface's customizable mobile portable system.

## Materials

- WTS 1200 Standard Precision LowProfile™ Wireless Load Cells
- WTS-BS-3E Wireless Base Station
- 9812-WTS Wireless Panel Mount Display for Single Transmitters
- WTS-ANTE Telemetry Antennas
- Windows Based Tablet-Computer
- Custom made Pelican case with inverter and rechargeable battery pack

## How It Works

1. The WTS 1200 Standard Precision LowProfile™ Wireless Load Cells and the 9812-WTS Wireless Panel Mount Display for Single Transmitters are installed safely in the custom made mobile case.
2. When ready for transport, the load cells can be removed and attached to perform force tests.
3. When all force measurements have been recorded, all load cells and instrumentation can be returned back into it's casing for further transport.

